

Title (en)
Apparatus for mixing and dosing solid and fluid components of an anti-corrosion agent, method for producing a coating product and device for application

Title (de)
Vorrichtung zum Mischen und Dosieren von festen und flüssigen Komponenten eines Korrosionsmittels, Verfahren zum Herstellen eines Beschichtungsmittels und Applikationsanordnung

Title (fr)
Appareil pour mélanger et doser des composants solides et fluidiques d'un produit anticorrosif, procédé pour la production d'un agent de revêtement et dispositif d'application

Publication
EP 2014352 A3 20091118 (DE)

Application
EP 08016356 A 20070116

Priority
• EP 07711348 A 20070116
• DE 102006002545 A 20060118

Abstract (en)
[origin: US2010221568A1] The invention relates to an anticorrosive agent comprising zinc dust, and a second component, an organic binder and a VOC-free or VOC-compatible solvent. In order to allow the metal workpieces to be coated in a reliable and energy-saving manner at constant quality, the binder comprises silicon dioxide and alkali silicate in a molar ratio of at least 4:1. The invention also relates to a device for mixing and metering solid and liquid components of an anticorrosive agent. Said device comprises means for metering the quantities of the respective components of the anticorrosive agent, a solution tank and a mixing device. An application system for applying the anticorrosive agent to a workpiece comprises a solution tank, feeding means, at least one pressure reducer connected to the solution tank and at least one spraying device connected to the solution tank.

IPC 8 full level
B01F 27/93 (2022.01); **B05D 7/14** (2006.01); **C09D 5/08** (2006.01); **C09D 5/10** (2006.01); **C09D 7/45** (2018.01)

CPC (source: EP KR US)
B01F 23/511 (2022.01 - EP US); **B01F 27/86** (2022.01 - EP US); **B01F 27/88** (2022.01 - EP US); **B01F 27/93** (2022.01 - EP US); **B01F 33/84** (2022.01 - EP US); **B01F 35/715** (2022.01 - EP); **B01F 35/7174** (2022.01 - EP US); **B01F 35/7175** (2022.01 - EP US); **B01F 35/881** (2022.01 - EP US); **B01F 35/92** (2022.01 - EP US); **B05D 7/14** (2013.01 - EP US); **B05D 7/51** (2013.01 - EP US); **C09D 1/04** (2013.01 - EP US); **C09D 5/08** (2013.01 - KR); **C09D 5/10** (2013.01 - EP US); **C09D 183/04** (2013.01 - KR); **C23C 22/00** (2013.01 - EP US); **C23C 22/60** (2013.01 - EP US); **B01F 35/715** (2022.01 - US); **B01F 2035/99** (2022.01 - EP US); **B05D 3/0254** (2013.01 - EP US); **B05D 7/54** (2013.01 - EP US); **Y10T 428/12111** (2015.01 - EP US); **Y10T 428/31678** (2015.04 - EP US)

Citation (search report)
• [XAY] GB 2229715 A 19901003 - CABOT CORP [US]
• [XAY] US 5234614 A 19930810 - SAKAMOTO KAZUNORI [JP], et al
• [YA] FR 1539369 A 19680913 - PHILIPS NV
• [XAY] US 3593928 A 19710720 - FRIEDLAND MORRIS
• [A] US 6248144 B1 20010619 - TAMAI KAZUSEI [JP], et al
• [XAY] DATABASE WPI Week 198527, Derwent World Patents Index; AN 1985-163899, XP002531612, "Method of dispersing pigments"

Cited by
RU2754910C1; DE102016218416A1; DE102016218416B4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
US 2010221568 A1 20100902; AU 2007207129 A1 20070726; AU 2007207129 B2 20110922; BR PI0706582 A2 20110329; CA 2636668 A1 20070726; CN 101370880 A 20090218; DE 102006002545 A1 20070719; EA 200870173 A1 20081230; EP 1976947 A2 20081008; EP 2014352 A2 20090114; EP 2014352 A3 20091118; IL 192641 A0 20090211; JP 2009523913 A 20090625; KR 20080085206 A 20080923; WO 2007082711 A2 20070726; WO 2007082711 A3 20071011; ZA 200806173 B 20090429

DOCDB simple family (application)
US 16135107 A 20070116; AU 2007207129 A 20070116; BR PI0706582 A 20070116; CA 2636668 A 20070116; CN 200780002492 A 20070116; DE 102006002545 A 20060118; EA 200870173 A 20070116; EP 07711348 A 20070116; EP 08016356 A 20070116; EP 2007000333 W 20070116; IL 19264108 A 20080706; JP 2008550676 A 20070116; KR 20087019361 A 20080807; ZA 200806173 A 20080716